MISSOURI

STATE BOARD OF HEALTH



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OCTOBER-DECEMBER, 1911

NO. 2.

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A FOREWORD.

The Vital Statistics Law has been in operation since February 1, 1910, and the results in this time compare very favorably with that of states where the law has been in force for a much longer period. The compilation of statistics up to this time has been carried on in a comparatively elementary manner, but in due time more detailed reports giving statistics of both births and deaths by color, race, sex and occupation will be furnished. The rate of births and deaths according to color is a very important one, and much valuable information can be obtained from such a compilation. The cause of death will also be considered in relation to the various occupations, and statistics on this question can be made of estimable value.

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CEREBRO-SPINAL MENINGITIS.

The sudden and unexpected appearance of cerebrospinal meningitis in communities hitherto free from the disease indicates that a brief review of the subject would not be out of place. This is especially true since during the past year the value of antimeningitis serum has become fully established, and the product has been placed upon the market.

Etiology.

The infecting agent is a specific germ, the meningococcus, which, gaining access to the meninges of the brain and spinal cord, sets up an acute inflammation with an increase in the amount of spinal fluid, which rapidly becomes purulent. The infection in the majority of cases enters the body through the nasal passages, and the discharges from the nose and throat are infectious.

Diagnosis.

An early diagnosis is of the utmost importance if benefit is to be expected from the use of antitoxin. By an early diagnosis is meant one made within the first twenty-four hours of the disease. This is usually not difficult if a lumbar puncture is made in suspicious cases. The very sudden onset, manifest by intense headache, fever, vomiting, and in children, often with convulsions, leads one to suspect this form of meningitis. Delirium, pain in the back of the neck and along the spine and muscular rigidity, are also commonly seen early in the disease. Symptoms of this character are especially suggestive when the disease is epidemic, or when the digestive and respiratory systems show no physical signs.

A lumbar puncture, with proper care to avoid infection, is entirely harmless, and should be used in suspicious cases, especially during the

prevalence of meningitis in a community. If a cloudy or slightly cloudy fluid is obtained, the probability is that the case is one of epidemic cerebrospinal meningitis, and the antitoxin should be used at once. The spinal fluid may then be examined miscroscopically and the subsequent treatment outlined according to the findings. A clear spinal fluid is often obtained in tuberculous meningitis, but very rarely in the epidemic form.

Cases of pneumococcus meningitis appear to be more frequent during an epidemic of the meningococcus variety, and mixed infections sometimes occur. These also give a cloudy fluid, but the difference is easily discovered by the use of the microscope.

Treatment.

It should be clearly understood that the antimeningitis serum is always to be used by injection into the spinal canal. Subcutaneous injection, as in diphtheria, is of no benefit.

To obtain good results treatment must be begun very early, during the first twenty-four hours of the disease. Such cases properly treated show a mortality of about thirty per cent, as compared with a mortality of seventy per cent in cases not receiving specific treatment. If possible, the antimeningitis serum should be injected at the time the fluid is withdrawn for diagnosis. The amount of fluid that can be obtained is of less importance than the amount of serum that should be injected. The fluid should be allowed to run until at least 30 c. c. have escaped. If the pressure is still considerable and no untoward symptoms appear, such as pain in the head, or restlessness, 40 or 50 c. c. should be taken. The removal of a considerable quantity of fluid is of benefit not only in lessening the pressure, but it diminishes the amount of toxin which is acting upon the nerve tissues. At times it is difficult to obtain more than 10 or 20 c. c. Then if the serum is at hand it may be injected, slowly and slightly warmed, without removing the needle. At least 30 c. c. should be used for each dose in every case, and if the pressure seems not too great or too much discomfort is shown, 45 c. c. should be used. The importance of these larger doses cannot be overestimated, as well as their early and repeated use. Some little time is required for the antitoxin to obtain its maximum effect, and the best results seem to follow its use in a more or less empirical manner. Accordingly, the use of 30 or 45 c. c. of serum is recommended daily for four successive days, without taking into consideration any improvement on the part of the patient. Next to the use of early and large doses, the use of regularly repeated doses is essential. At the time of each lumbar puncture for the purpose of giving the antitoxin, as much spinal fluid as is deemed wise should be allowed to escape. It is also recommended that the foot of the bed should be raised immediately following the injection of the serum, with the view of aiding its distribution along the meninges.

The subsequent treatment of a case after the four doses have been given will depend upon the symptoms. It may be necessary to continue the use of the serum, but if the improvement is marked, further doses need not be given unless there is a return of the symptoms.

It is recommended that urotsoprin be given during the course of the disease; other treatment is entirely symptomatic.

Prophylaxis.

The patient should be isolated, and the general rules of quarantine applied, which are used in diphtheria or scarlet fever. The length of time that quarantine should be maintained will depend upon the course of the case. Nose and throat should be in the normal condition and convalescence well established before the quarantine is raised.

A mild nasal spray and mouth wash is recommended for use by the attendants.

SEPTEMBER EXAMINATIONS.

On September 25th, 26th and 27th, examination of applicants for license to practice medicine and surgery, was conducted at Kansas City. Fifty-three took this examination, with the result that thirty-six passed and seventeen failed.

Below appears the names of the medical colleges represented, with an analysis of the result of the examination as it might apply to colleges:

KANSAS CITY EXAMINATION, SEPTEMBER 25, 26 AND 27, 1911.

Colleges.	Number examined.	Number passed.	Number failed.	Per cent of failures.
American Medical	2	2	0	0
Barnes Medical	10	5	5	50
Creighton Medical	1	0	1	100
Ensworth Medical	4	2	2	50
Illinois Medical	1	1	0	0
Johns Hopkins	2	2	0	0
Kansas Medical	1	1	0	0
Kansas University	1	1	0	0
Kentucky School of Medicine	1	0	1	100
Kansas City Hahnemann	4	4	0	0
Louisville University	4	2	2	50
Meharry Medical	1	1	0	0
Northwestern Medical	1	1	0	0
Physicians and Surgeons, St. Louis	7	2	5	71 3-7
Rush Medical	2	2	0	0
St. Louis University	1	1	0	0
Pennsylvania University		1	0	0
Washington University	1	1	0	0
University Medical		7	1	121

SUMMARY OF LICENSES ISSUED DURING THE YEAR 1911.

During the year 1911 licenses to practice medicine and surgery have been issued by the Missouri State Board of Health to 258 physicians, 192 of this number were licensed upon examination, while 66 were licensed upon reciprocity.

During the same period licenses were issued to five midwives.

The table below will show the states from which physicians licensed on reciprocity came, and the number per state:

State.	Number Licensed
District of Columbia	2
Illinois	THE RESERVE OF THE PARTY OF THE
Indiana	
Iowa	11
Kansas	17
Kentucky	
Maine	
Maryland	
Minnesota	3
Nebraska	
Ohio	
rexas	THE RESERVE TO SERVE THE PARTY OF THE PARTY
Utah	1
Virginia	AND THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.
West Virginia	
Wisconsin	The Agency of the Control of the Con

RULES GOVERNING THE ISSUANCE OF LICENSES TO PRAC-TICE MEDICINE AND SURGERY ON THE BASIS OF RECIPROCITY.

Reciprocity, on the basis of examination only, exists between Missouri and the following named states, viz.: Illinois, Louisiana, North Dakota, South Carolina, Texas and Virginia.

It is required of an applicant coming from Illinois that he shall have been licensed in that state on a date since January 1, 1907.

In the other above-named states we require that an applicant shall have been licensed on examination on a date since June 1, 1901.

Reciprocity on the basis of diploma or examination exists between Missouri and the following named states, viz.: Colorado, District of Columbia, Georgia, Indiana, Iowa, Kansas, Kentucky, Maine, Maryland, Michigan, Minnesota, Nebraska, Nevada, New Hampshire, Ohio, Utah, Vermont, West Virginia and Wisconsin.

We require of those licensed on diploma only, that they shall have been so licensed prior to June 1, 1901.

Those licensed on a date since June 1, 1901, in the states with which

we reciprocate on both qualifications, shall have been licensed on both diploma and examination.

One year's practice in a reciprocating state is required of all applicants.

Membership in a county, district or national medical society is also required.

It is required that all applicants shall be graduates of accredited medical colleges.

Applicants for a certificate on the basis of reciprocity, must make formal application on a blank provided by the Missouri State Board of Health.

In sending application to the office of the Secretary, it must be accompanied by diploma of graduation, the original certificate issued by the reciprocating state and the fee, which is twenty-five dollars (\$25.00).

ECONOMIC LOSS TO MISSOURI FROM TUBERCULOSIS IN 1911.

W. McN. Miller, M. D., Secretary.

The Missouri Association for the Relief and Control of Tuberculosis, Columbia, Mo.:

Sources of Information:

- A. Riley, Dr. Thomas J., Economic Cost of Tuberculosis to the State of Missouri in the year 1910; Special Message of Governor Herbert S. Hadley regarding the Control and Prevention of Tuberculosis, together with a report of the Voluntary Commission to the Forty-Sixth General Assembly, 1911, Jefferson City, Mo.
- B. Missouri State Board of Health, Quarterly Bulletin, New Series, Vol. 1, No. 1, July-September, 1911, Jefferson City, Mo.
- C. Official Manual of the State of Missouri for the years 1911-12. Cornelius Roach, Secretary of State, Jefferson City, Mo.
- 1. (A. Page 59.) The total cost of nursing, medical attendance, medicine, special diet and travel of those who died, each case costs the community \$821.25.
 - (B. Pages 10 and 38, computed.)

Deaths from tuberculosis, all forms, Jan-	
uary 1, to June 30	2,782
Same, estimated, July 1, to December 31.	2,782
Total, same estimated, January 1, to	
December 31	5,564

\$821.25x5,564\$4,569,435.00

II. (A. Page 61.) Loss of earnings on account of the partial and total disability of the decedent, during sickness: 3,171 men, 2,393 women.
Of these there were wealth producers— 2,142 men x \$1,575.00
Total, men and women
future earnings of those who died from tuberculosis.
Wealth producers— 2,142 men x \$9,501.33. \$20,351,848.86 1,196 women x \$4,750.66. 5,681,789.36
Total, men and women
I \$4,569,435.00 II 4,307,500.00 III 26,033,638.22
Total loss from tuberculosis, 1911
Note—This estimate does not include the loss occasioned by illness from which tuberculus patients recover.
Total loss from tuberculosis in Missouri, 1911
Total taxable wealth of Missouri (C. page 504), 1911. \$1,676,402,812.26 Loss from tuberculosis per \$100 taxable wealth 2.082 Somewhat more than one-half the income from a conservative bond investment.
Total loss from tuberculosis in Missouri, 1911

Total taxable wealth of Missouri, 1911	\$1,676,402,812.26
Total loss from tuberculosis in Missouri, 1911	34,910,573.22
Taxable wealth per capita population in Missouri, 1911	508.67
Loss from tuberculosis per capita population, 1911	10.59

The total loss from tuberculosis to the State in 1911 was \$34,910,573.22, which is 4 per cent of \$872,764,330.50, a sum which is somewhat more than one-half of the total taxable wealth; to save this loss the State would be justified to bond itself at 4 per cent for one-half of its total taxable wealth, if thereby tuberculosis might be suppressed.

For the school year 1909-10, there was expended on account of the public schools, a total sum of \$13,905,188.80 (C. page 539), for teachers' wages, incidental expenses (clerk, janitor, fuel, library and school supplies), and for building purposes (school sites, buildings, furniture, repairs, bonds and interest). The loss from tuberculosis in 1911 was approximately $2\frac{1}{2}$ times the total expenditures for all public school purposes for the school year 1909-10.

The State spent 18 1.10 cents a day upon each child in attendance at the public schools (C., page 538), and at the same time permitted the loss of 45 9.10 cents per child per day's attendance, from tuberculosis. Because of this loss from tuberculosis, school officers have been constrained to keep down the cost of education by paying inadequate salaries to its teachers, thus keeping down the quality of instruction, but have made no effort to teach hygiene pertaining to tuberculosis in its public schools whereby this loss might be averted a "Save at the vent and waste at the spigot" policy.

MISSOURI ADMITTED INTO THE REGISTRATION AREA.

The following extract is taken from a letter received from the Director of the United States Bureau of the Census and directed to this office:

"In 1909 the Legislature of Missouri passed a law for the immediate registration of births and deaths, which went into effect under the administration of your Board on February 1, 1910. The law was that recommended by the Bureau of the Census, and its operation has been carefully observed by this office.

You have met great difficulties and, while there are certain counties in Missouri in which the law is not completely in force, I believe, after careful examination of your results and of the recommendation of Dr. Cressy L. Wilbur, Chief Statistician for Vital Statistics, that I am warranted in authorizing the admission of Missouri into the Census Registration Area for deaths for the calendar year 1911, the first complete calendar year since the law went into effect."

It is to be noted that after ten months' operation of the law, requiring the registration of births and deaths, that this State was admitted into the Registration Area, Missouri making the twentieth state comprising this area.

Much of the satisfactory operations of the law has been due to the painstaking and diligent efforts of the Local Registrars of the various districts, and to the faithful compliance to the law by the physicians and undertakers of the State.

SOME IMPORTANT CAUSES OF DEATH AS SHOWN BY STATISTICS FOR THE LAST SIX MONTHS OF 1911.

Tuberculosis.

During the last six months of the year, 1,997 deaths were due to tuberculosis of the lungs. Two hundred and fifty-three deaths were due to tuberculosis of other organs, making a total of deaths from this disease of 2,250, or 11.4 per cent of the total number of deaths from all causes occurring during this period.

Diarrhoea and Enteritis.

One thousand four hundred and forty-three deaths occurred during the last six months in children under two years of age, due to diarrhoea and enteritis. Of the 20,371 deaths from all causes, 7.8 per cent were due to the above-named cause, occurring at the above-given period of life. In the September bulletin some important data was printed with reference to diarrhoea in children. This immense death rate in the young should attract the attention, not only of the medical profession, but of all those interested in economical and social problems.

Scarlet Fever.

During the last six months an exceedingly low death rate from this disease was reported, the returns showing only 65 deaths as having occurred in the State from scarlet fever.

Diphtheria and Croup.

Three hundred and ninety deaths from diphtheria and croup were reported to the Central Bureau of Vital Statistics for the past six months just closed.

In the "International Classification of the Cause of Death," "croup" continues to be coupled with "diphtheria," It is, however, understood by the term "diphtheria and croup," only "diphtheria" is meant. All fatal cases of croup should be reported as diphtheria.

Whooping Cough.

During the last six months 263 deaths were reported as due to whooping cough, or more than four times as many as were caused by scarlet fever. This fact clearly points to the necessity of the State and municipalities adopting laws compelling a very rigid quarantine of this disease. Quarantine is fairly well enforced as concerns scarlatina, yet those suffering from whooping cough are permitted, in many communities, the freedom of the schools, and are allowed to mingle promiscuously with the public. This disease, which for the last six months, caused more than four times the deaths that scarlet fever caused, should, both by public sentiment or demand, and by statute — be placed among the list of diseases requiring careful segregation and quarantine.

Typhoid Fever.

Of the 20,371 deaths occurring from all causes during the past six months, 771, or 3.78 per cent were due to typhoid fever.

This disease, which is so clearly preventable, is demanding a death rate which speaks against sanitary conditions in many sections of the State.

Births and Deaths Reported in Missouri (Stillbirths not Included) From July 1 to December 31, 1911.

	Pop	Tota	Tota										In	npor	tant	caus	es of	death	1.								
Counties.	Population, 1911	Total births during six months ending Dec. 31st	Total deaths during six months ending Dec. 31st	Typhoid Fever	Smallpox	Measles	Scarlet Fever	Whooping Cough	Diphtheria and Croup	Influenza	Tuberculosis of the Lungs	Other forms of tuberculosis	Cancer	Diabetes	Epidemic Cerebrospinal Meningitis	Acute Anterior Poliomy- elitis	Other diseases of the nervous system	Diseases of the heart and circulatory system	Pneumonia. Broncho- pneumonia	Other diseases of respiratory system	Diarrhoea and Enteritis (under 2 years of age).	Acute Nephritis and Brights Disease	The puerperal state	Accidents	Suicides	Homicides	Other causes
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Andrew— July August September October November December		32 29 19 42 26 39	12 12 12 17 6 9	1 1 1					i i ::-i		$\begin{array}{c} \dots \\ 1 \\ 2 \end{array}$						2 3 1 1 		 2	1 i 1	3 	3 1 2 	i i	2 2	 1 	1	
Total		187	68													2											
Atchison— July. August. September October November December.		22 22 22 22 11 10 37	14 13 7 5 9			1			i		i i		1 1 1 1				1 2 1 1	$ \begin{array}{c} & 2 \\ & 1 \\ & \dots \\ & 2 \\ & 1 \end{array} $		1	$ \begin{array}{c} 2 \\ 1 \\ 1 \\ 2 \\ \dots \\ 1 \end{array} $	2 1 1		1 1 1 			
Totals		124		777	7.4	-	-	-	-	-			-		-						-						

Audrain— July		39 50 32 40 43 32 236		3 1			::: :::	i	:::: ::::	2 2		 i 4		::::	2 2 1	3 4 1 1 3		2	2 3 i	1	i	 i		6 4 5 2 3 3
Barry— July August September October November December	23,869	41 51 46 54 65 60	15 20 14 19 30 26	1 1 5 3 2		 i		2 2 5 4	:::: :::: ::::	1	-	1 1 2	::: ::: :::		2 2 3 2 2 2 2	2 2 3 1	/ / / / / / /			· · · · · · · · · · · · · · · · · · ·	1	1 1 1	: : :	5 7 2 2 7 7
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				-						3/5/4-	-)	1		,	1	-		1	1	,	,		Table 18

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	Pop	Tota	Tota										Im	por	tant	cause	es of c	leath									
Counties. •	Population, 1910	Total births during six months ending Dec. 31st	Total deaths during six months ending Dec. 31st	Typhoid Fever	Smallpox	Measles	Scarlet Fever	Whooping Cough,	Diphtheria and Croup	Influenza	Tuberculosis of the Lungs	Other forms of tuberculosis	Cancer	Diabetes	Epidemic Cerebrospinal Meningitis	Acute Anterior Poliomy- elitis	Other diseases of the nervous system	Diseases of the heart and circulatory system	Pneumonia, Broncho-	Other diseases of respiratory system	Diarrhoea and Enteritis (under 2 years of age).	A c u t e Nephritis and Brights Disease	The puerperal state	Accidents	Suicides	Homicides	
July		36 44 35 41 50 35	9 5 12 14 14 14 8	1 1 2 3 				 1 3	 2 2 2 2		1 1	i	 1 1	: : : 1							1	1 :::::	::: :::i ::::	 i 1			
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Totals		319	164																								
Buchanan (outside St. Joseph)— July. August. September. October. November. December.		18 22 20 20 18 30	. 11 14 9 10 17 20	i				 i	 1 1		2 6		2				2	· · · · i	 1 3 4		1 2 1	1		3 3 3 31			
Totals		128	81																				-				

St. Joseph 77. July August September October November December	$egin{array}{cccccccccccccccccccccccccccccccccccc$	72 84 65 84	$\frac{3}{2}$ $\frac{3}{3}$ $\frac{1}{1}$				1		3 8 6 6 7	₂	6 4 5	i		18 7 12 9 15 15	11 1- 8 16	2 1 5 3 7 8	 2	6 2 7 5 1 1	5 9 4	i	3 4 5 1 2 3	2	1 1 1 1 1 1	30 23 13 17 15 18
Totals	644	493		 									 											
Butler 20 July August September October November December	49 55 48 48 51	41 20 38 38	4 2 2	 		2	5 2			1	1 2	i			1 2 1 1	3 1 1 8 3	1 2	5 3 3	2	1 1	2	-1	3 	10 13 8 15 11 13
Totals	309	207		 									 									-		
Caldwell 14 July . August . September . October . November . December .	$egin{array}{cccccccccccccccccccccccccccccccccccc$	14 14 13 11	i	: : :		:::			2	1	$\begin{array}{c c} 1\\2\\1\\1\\1\end{array}$	i		4 1 2		····i		 2	j	1 · · · i	i	 i		2 3 1 2 1 3
Totals	153	67		 									 											
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Totals	146			 			• • •						 											

BIRTHS AND DEATHS REPORTED IN MISSOURI (STILLBIRTHS NOT INCLUDED) FROM JULY 1ST TO DECEMBER 31ST, 1911—Continued.

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	Pop	Tot:	Tot:										Iı	npo	rtant	caus	ses of	deat	h.				1 8		1		
Counties.	Population, 1910	Total births during six months ending Dec. 31st	Total deaths during six months ending Dec. 31st	Typhoid Fever	Smallpox	Measles	Scarlet Fever	Whooping Cough	Diphtheria and Croup	Influenza	Tuberculosis of the Lungs	Other forms of tubercu- losis	Cancer	Diabetes	Epidemic Cerebrospinal Meningitis	Acute Anterior Poliomy- elitis	Other diseases of the nervous system	Diseases of the heart and circulatory system	Pneumonia, Broncho- pneumonia	Other diseases of respiratory system	Diarrhoea and Enteritis (under 2 years of age).	Acute Nephritis and Brights Disease	The puerperal state	Accidents	Suicides	Homicides	Other causes
	:::::::::::::::::::::::::::::::::::::::	50 60 57 69 63 58	36 27 22 39 35 35	3 1 4 2		1	 i	3 1	4 2		4		1				1 2 1 3 3 2	3	_i		3 3 3 2 1	$\begin{array}{c}1\\2\\1\\4\end{array}$	2			 i 	11 13 7 8 7 7
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Totals		78	31																								

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ယ	Totals	 252	110																							
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	Totals	 173	.74				1							-		1					1000		3000	-		A. C.
C	hariton— July August September October November December	 52 41 45 40 37 53	22 15 19	1 1 	102		1			3		2 2 1	i			3 3 2 3	2 3 2 2	1	1	5 2	3	2	1 2 1 2 2			13 6 3 5 5
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			The state		1	-		-	100	200	1		7	-				-	,	-			==	-		

BIRTHS AND DEATHS REPORTED IN MISSOURI (STILLBIRTHS NOT INCLUDED) FROM JULY 1ST TO DECEMBER 31ST, 1911—Continued.

					54					Con	unue	u.										*					
	Pop	Tot	Tot										In	por	tant	cause	es of	deatl	1.								
Counties.	Population, 1910	Total births during six months ending Dec. 31st	Total deaths during six months ending Dec. 31st	Typhoid Fever	Smallpox	Measles	Scarlet Fever	Whooping Cough	Diphtheria and Croup	Influenza	Tuberculosis of the Lungs	Other forms of tuberculosis	Cancer	Diabetes	Epidemic Cerebrospinal Meningitis	Acute Anterior Poliomy- elitis	Other diseases of the nervous system	Diseases of the heart and circulatory system	Pneumonia. Broncho- pneumonia	Other diseases of respiratory system	Diarrhoea and Enteritis (under 2 years of age).	A cute Nephritis and Brights Disease	The puerperal state	Accidents	Suicides	Homicides	Other causes
Clay— July. August September October November December Totals		$ \begin{array}{r} 31\\ 27\\ 39\\ 28\\ 33\\ 34\\ \hline 192 \end{array} $	31 27 33		2			1 3 	::: ::i ::::	i	1 3 2 3	····i	3 1 1 1 1	1 1		1 	2 3 2 3 2 1		1 5		1 1 6 1 1	2 3 4 2 2 3		2 2 2 1	1 1 1 1		6 8 1 7 4 7
Clinton— July August September October November December	15,297	22 20 28 25 26 20 141	19 9 18 20 13		i						2 1 3	2	2 1 1 2 1 1	2			2 1 3	4 5 3 1		i	2 2 2	1	::: ::: ::: :::	1 1 1 1 			4 1 3 3 7 2
Cole (outside Jefferson City) July August September October November December Totals	10,107	10 23 24 27 15 24 ———————————————————————————————————	5 7 7 5		i			·									1 	1 1 3	· · · i		i 1 1 1 1 1	1 1		1 1 1 1 1 			1 2 2 1 3 3

Jefferson City—	11,850	1	1		1	1	1		(1 - 1	- X		1	,			1						1	,	1		
July	11,000	8	17				32				1		-45	818	1	5974	1			-			1	0			
August		26	14								1	::::					2			1	3	13		2			5
September		10	9								2						- 20	1	1		3			1		1	Z
October		31	9	1	:::						2		2														2
November		15	12	9	:::															1		75 1					2 2 2 2
December		17	13	2	:::						1	;	1				2	1	2							1	
December		1,	19	4							1	1					1	3	2			7.00					2
Totals	The plant of	107	71		100	1977	- 112		7		19/1		300	1	1000	200	-				1 7 11					-	
100013		107	14																								
Cooper—	20.311	-3)-28-90	THE RESERVE		1.0	3.7	100		7		4	100				7 8 7 7		2	7000	/			-				
July	20,311	25	18			- 47		1983	318	4		The same	-	3	The State of	and the same		-		1 10	1000	1200		12.38			
August		34	21								3		1				3	1		1		2		1			6
September		38	23	1							2		1				$\begin{array}{c c} 3 \\ 2 \\ 2 \\ 2 \\ 1 \end{array}$	3		1	4						4
October		32	23						:		0	2	2				2	2		1]		-			5
November		33	18						1		2		3				2	3	2		2						- 8
December		34	18	2																3				2	1		4
December		34	18	1							1		1				1	4	3		1						6
Totals	THE PROPERTY OF THE PARTY OF TH	100	101	7 17	1	100					70.00	777		-		W 2		-				700	-	-	-	-	
Totals		196	121																				[[]		
Crawford—	13,576	140 710 48	1 1 1.											100			==		===			===	-	_	-	==	==
	15,570		12		100		1000	80		1					1	- E				CV +		8.0	13.72	1			
July		32 35	13	1							3						2	1			3						3
August September		33							1		1						2				1						$\frac{2}{2}$
October		24							1									1							1		2
November		27	13								2		2			1			1			1					1
December		20	8					1			. 1						2							1			1
December		36	9	1									1					1	2				1	1			2
Totals	7 C. M. C. T. M. C. S.		0.0	7		-	N. T.	-	-	_		-	-							-			-	-	-	-	
Totals		174	60																								
Dade—	15 010				_		=	==	=	=			==				==						_	_	-		
	15,613				100		2.03	The state of	1	-	1 44	13	100	1000	100	100	-	Carrie 1	3472	Charles and the same of the sa	337	198	3	- 17	150		
July		29	7	1														2					2	1			1
August		33	10										1		1				1								5
September		21	8	2							1							1			1						3
October		19	15								1		2	1			2	1						1			4
November		20	18						2	1	2			1					2	1		1		1			3
December		33	16					1	2	1							1	3	1								7
Totals	A Second Second	-	-	-	-	_		50	-	-	-	_		_			_	-				-				-	-
Totals		155	74																								
Dallas—	10 101			_	-		-	=	=		==	_	=	==	==		==	==			==		_			===	==
	13,181	0.0			200		3		19.4	126		3			5-37		A DAME					100		100		1999	
July		33	6						. 1				1					1		1	1		1				1
August		35	8								2						2	1		1	1						1
September	,	29	9	2							1	1					1				1	2					1
October		23	4																		2	1	1		-		
November		30	8	1					1		1						1				1						3
December		20	13	2					2							No se	2	1									5
			1. 700	-	-	-				-		-								2		-	-	441			
Totals		170	48																				-	4	-	STA	CA FILL
					=	=			===	=											===						==

BIRTHS AND DEATHS REPORTED IN MISSOURI (STILLBIRTHS NOT INCLUDED) FROM JULY 1ST TO DECEMBER 31ST, 1911
—Continued.

	Pop	Tota	Tota										Im	por	tant	cause	s of c	leath	225								
Counties.	Population, 1910	Total births during six months ending Dec. 31st.	Total deaths during six months ending Dec. 31st	Typhoid Fever	Smallpox	Measles	Scarlet Fever	Whooping Cough	Diphtheria and Croup	Influenza	Tuberculosis of the Lungs	Other forms of tubercu- losis	Cancer	Diabetes	Epidemic Cerebrospinal Meningitis	Acute Anterior Poliomy- elitis	Other diseases of the nervous system	Diseases of the heart and circulatory system	Pneumonia, Broncho- pneumonia	Other diseases of respiratory system	Diarrhoea and Enteritis (under 2 years of age).	A cute Nephritis and Brights Disease	The puerperal state	Accidents	Suicides	Homicides	Other causes
July	17,605	35 21 37 29 32 31	16	1			 1 2 1		· · · · · · · · · · · · · · · · · · ·		$\begin{bmatrix} 2 \\ 2 \\ 1 \\ \dots \\ 4 \\ 2 \end{bmatrix}$	2	2 	 1 				3	3	: : 1 1	$\begin{bmatrix} \dots & 2 & 2 & 2 & 3 & \dots & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1$	$\begin{bmatrix} \dots & 2 \\ 1 \\ 2 \\ \dots & \end{bmatrix}$	···· ··· ··· 1 1	2 1 1	``i		. 5 4 8 2 3 3
Totals		185	89									<u></u>															
August September	12,531	26 26 19 16 24 27	7	1					 1 1			:::: ::::: ::::i				::::	 1 2	1	1 1 1		 1 1 1 1	i		1 1			4 3 2 7 2 10
Totals		138	61		13.6														7	1.07							
Dent— July. August September October November December		22 30 31 42 34 22	13 2 2 17	1					· · · · · · · · · · · · · · · · · · ·		4	i				1	1	2	 1 2		i	i		 1 1 1	i 		6 5 6 2
Totals		181	54																	'.							

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		17
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Douglas— July. August. September. October. November. December.	26 20 27 26 44 58	$\begin{array}{c}2\\5\\10\\6\end{array}$.1		:::		i	4	: : :			::: 1				1	1	1			i 	1 i			3 2 2 1 1
Totals	 201	38												 	1										
Dunklin— July August September October November December	75 84 98 118 104 96	62 41 52 87 63 56	$\begin{array}{c} 1\\1\\3\\2\end{array}$			···· i	9 11 7 15 12 5	1 1 1	 1 2	37 9			:::		4 4 2 2 2 1	$\begin{bmatrix} 1 \\ \dots \\ 2 \\ 3 \end{bmatrix}$	2 2	4 4	14	2 1	1 1	3 2		:::	27 14 24 36 21 19
Totals	 575	361								•				 											
Franklin July August September October November December	62 68 59 65 58 64	$\frac{32}{23}$	3 1 	:::	:::		1 1 2	···· 2 6		1 6	2	2		 	4 2 4 2 2 2 6	1 6 3 3	3 1		3 1 6 1	6		1			6 6 8 3 8 4
Totals	 376	171									7			 											
Gasconade July August September October November December	19 19 37 27 31 32	6 7 18 14 17	i i	: : :	:::	:::		'ni		 1 1	····i			 	····i	2	$\frac{1}{2}$		2 2 4	 1		· · · i	1		3 3 2 2 2 3 4
Totals	 165	76												 											
Gentry July August September October November December	15 20 38 39 35 34	13	2							····		3			1 1 4 4 2 1	$\frac{3}{1}$				1					4 6 3 6 1 2
Totals	 181	74												 											····
	STEP STATE			-					1							THE F	Total Control						,	,	

BIRTHS AND DEATHS REPORTED IN MISSOURI (STILLBIRTHS NOT INCLUDED) FROM JULY 1ST TO DECEMBER 3IST, 1911
—Continued.

		ATT. 361								-Co	ntinu	ed.	0				4		The second			ST.	e Gu				
	Pop	Total mor	Tot										In	po	rtant	caus	es of	deatl	h.								
Counties.	Population, 1910	otal births during six months ending Dec. 31st	Total deaths during six months ending Dec. 31st	Typhoid Fever	Smallpox	Measles	Scarlet Fever	Whooping Cough	Diphtheria and Croup	Influenza	Tuberculosis of the Lungs	Other forms of tuberculosis	Cancer	Diabetes	Epidemic Cerebrospinal Meningitis	Acute Anterior Poliomy- elitis	Other diseases of the nervous system	Diseases of the heart and circulatory system	Pneumonia, Broncho- pneumonia	Other diseases of respiratory system	Diarrhoea and Enteritis (under 2 years of age).	Acute Nephritis and Brights Disease	The puerperal state	Accidents	Suicides	Homicides	Other causes
Greene (outside Springfield)— July August September October November December		49 43 73 57 44 - 54	$\begin{array}{c} 25 \\ 13 \\ 22 \\ 14 \end{array}$	3	3			2	2		3 1 1 1 5	1 2					. 6 1 2 3	8		 1 1	3 2		300	1 3 2	1		6 11 3 5 5 10
Totals		320	134	1	1.															A.							
Springheld— July August September October November December		66 73 67 67 42 46	42 47 66 57	2 3 7 8 6 10 7 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	4			2	2 1 1		. 6	2	4	· · · · · · · · · · · · · · · · · · ·			4 2 2 1 1 1	5 4	2 4 4	2	4 4 1 4 1	2 2 3 4 4	i	1 2 3 3 3 2		1 : : i	17 10 12 12 12 16 4
Totals		361	303	3				33						-													
Grundy— July August September October November December		27 24 26 28 25 28	16 12 13 19	2	3									1			. 4			1	2 2		i	 1 1 1 2 1	 2 2		8 3 4 5 3 7
Totals		158	89	9	:																						• • • •

Harrison July August September October November December Totals		32 36 37 32 52 50 239		2	_	1	:::				2	 i	1 2				2 1 2 1 4	3 1 1 3 1	2 E		2		2		1 1 1	2	6 6 2 2 1
Henry— July August September October November December		30 63 59 53 39 51	28 20 33 25 22 23		1				i		2 1 2 3 4 1	1	1				2 5 3 4 4 1	2 6 2 5	2				1 2 1 2 1	1			6 8 9 4 2 5
Totals		295	151				7.																				
Hickory— July. August. September October November December		18 19 21 19 21 18						i			 1		i					i						j	i		2 3 6 3 4 3
Totals		116	43		.																						
Holt— July. August. September. October. November. December.		19 31 37 25 31 20	12	2	1				:::		1 3 2	1	···i			i 		4	 1 2	: : : :	1 2				i	::: ::: i	7 2 7 1 3
Totals		163	71																								
Howard July August September October November December		15 29 16 35 23 19	14 20 11 21 7 15	i		:::					2	i					2 2 2 2 2 1	$\begin{array}{c} 1\\1\\3\\2\end{array}$		1		22	1	2 		 i	2 9 4 6 3
Totals		137	88											3.7													
	Territorina de				1	1	11, 23		,	797	1313		17.04		1118		2000	228.7	Bar	- 5 17	1	1	,		,	,	of all all and

							L			00.	Tuma	····		200													
	Pop	Tota	Tot										Im	por	tant	cause	es of	death	ι.								10
Counties.	Population, 1910	Total births during six months ending Dec. 31st	Total deaths during six months ending Dec. 31st	Typhoid Fever	Smallpox	Measles	Scarlet Fever	Whooping Cough	Diphtheria and Croup	Influenza	Tuberculosis of the Lungs	Other forms of tubercu- losis	Cancer	Diabetes	Epidemic Cerebrospinal Meningitis	Acute Anterior Poliomy- elitis	Other diseases of the nervous system	Diseases of the heart and circulatory system	Pneumonia. Broncho- pneumonia	Other diseases of respiratory system	Diarrhoea and Enteritis (under 2 years of age).	A c u t e Nephritis and Brights Disease	The puerperal state	Accidents	Suicides	Homicides	Other causes
Howell July. August September October November December Totals.		46 60 56 52 68 42	25 19 18 24 18 16	9 4 8 2 1 1 8 1					 2 3		4 2 1 2 3 2	i	2 i 2			i	3 1 3 2 1	3 2	2 1 1 3 3 3 3		1 1 2	1 1 1 	1 1 1	-1 			6 6 7 5 3 6
Iron— July. August September October November December Totals.	8,563		7 3 12 13 10	7 3 1 1 2 1 3			· i		3 1 1		1 2 1 2		i				j	2	1 i	1	1 3	· · · · · · · · · · · · · · · · · · ·	1				3 0 4 3 2 4
Jackson (outside Kansas City)— July August September October November December Totals		58 60	28 36 36 46	8 7 6 6	3	-		 3	2	· · · j	2 2 3 3	3	34	· · · · · · · · · · · · · · · · · · ·	i			2 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3 3 3 3 2	1	5 3 2 2	4 2	2	2	i	 ::: ::: 1	12 6 11 10 10 10
				=	-		-	-		-				=	-	-	===	===	-		-	-		-	-		

Kansas City— July August		$ \begin{array}{r} 443 \\ 397 \\ 405 \\ 395 \\ 411 \\ 388 \\ \hline 2,439 \end{array} $	321 323 250 291 312 323 1,820	9 9 11	1 1 1		i ::::	4 2 2 	 1 3	2	26	$\begin{array}{c} 4\\1\\3\end{array}$	$ \begin{array}{r} 28 \\ 15 \\ 20 \\ 21 \end{array} $	3 5 2 3	 1	35 16 17 18 24 20	36 49 35 47 43 42	11 14 14 35	10 8	$\frac{10}{22}$ 14	22 22 22 23 22 21	1 3 7 4 4	21 17 13 22 12 20	3 10 7 4 8 4	1 7 5 5 1 7	99 96 61 48 71 75
Jasper (outside Joplin and Webb City)— July	45,783	79 94 82 81 89	39 46 37 42 55 58				1	3 1 	 3	::: ::: ::i	_ 3		1 1	∵i	i	3 3 1 2 8 3	3 8 6 4 3 7	···i	1 1 	5 2 1 5 2 2	$\begin{smallmatrix}1\\6\\2\end{smallmatrix}$		1 4 2 1 1 4	1 2 : i : i : i : i : i : i : i : i : i :	i	10 11 12 11 17 13
Totals Joplin July August September October November December Totals	32,073	516 44 41 39 59 36 41 260	$ \begin{array}{r} 277 \\ \hline $	1 2 4		::: :::		5 1 2	····i		2 6 4 6 4 9	1 i 1	$\frac{2}{2}$	1 :: : 1	·····i	1 4 1 2 4 1	7 4 4 5 6 4	1 2 7 5	i	8 6 1 2 1	1 2 3 1 1 · · · · · · · · · · · · · · · · ·		3 3 4 1 2	1 . 1 . 1 . 1 . 1 . 1	· · · · · · · · · · · · · · · · · · ·	10 12 5 13 4 6
Webb City— July. August. September. October. November. December. Totals.	11,817	30 23 23 26 26 28 156	11 10 21 20 23 10				i		 3 2		1 1 4 4 4 3	i	1 			1 2 1	2 3 3 1	 : i 	1	3 5 5 2 1	1 i	1 2	2 3 2 3	1	i	3 3 4 4 3
Jefferson— July August September October November December		53 64 38 71 51 39	29 27 35 20 31 34	 2 5 							2	₁	2 2 2		 	1 1 2 6 1	3 6 1 3 5 4			$ \begin{array}{c} $	2 2 1 1 3	i		1	i	9 4 13 6 6 8

Totals.....

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BIRTHS AND DEATHS REPORTED IN MISSOURI (STILLBIRTHS NOT INCLUDED) FROM JULY 1 TO DECEMBER 31, 1911—Continued.

			8.31					12.3	-00	111111	ruea.	-						1			ETP.	-					1
	Pop	Tot	Tot										In	npor	tant	caus	es of	death	ı.								
Counties.	Population, 1910	Total births during six months ending Dec. 31st	Total deaths during six months ending Dec. 31st	Typhoid Fever	Smallpox	Measles	Scarlet Fever	Whooping Cough	Diphtheria and Croup	Influenza	Tuberculosis of the Lungs	Other forms of tuberculosis	Cancer	Diabetes	Epidemic Cerebrospinal Meningitis	Acute Anterior Poliomy- elitis	Other diseases of the nervous system	Diseases of the heart and circulatory system	Pneumonia, Broncho- pneumonia	Other diseases of respiratory system	Diarrhoea and Enteritis (under 2 years of age).	A c u t e Nephritis and Brights Disease	The puerperal state	Accidents	Suicides	Homicides	Other causes
October November		38 63 31 48 36 50	19 19 19 24	1							3 1 2 2 1		2 4 	1 1 1			4 3 3 3 3 3 3	3 3 5 1	_i	1 2 2 2	3 2 2 1	4 1 2 1		1 1 1	i	3	12 2 3 7 9 5
Totals		266	125		1			**					·			.,	7, 7,		,		134						
August		21 20 23 24 18 21	13	3				i			4 i i	i	 1 1 	 i			3 1 1 4	$\frac{2}{2}$			1 1 2 		::: : i	i i i 1		<i>A</i>	3 1 4 1
Totals		127	56	3				10	•				77.														
August	17,363	34 44 32 26 39 26	15 19 11	2 3 5 1 1					1 1 1 1		1 1 1 2 2		 			i	1 1 1 3 1	1 1 2 2 2	····i	i	4 i 1	1 2	 1	i			6 3 1 7 5 1
Totals		201	75	5																							- 82

Lafayette July August September October November December		40 63 60 51 50 61	22 34	1 2	-	i		2 i		:::	3	3 3 1	1 2 	 1 1			6	4 5 4 3 7	1 2 5	1 5 1	3 1	2 2 2	2	1			7 13 8 14 6 5
Totals		325	186			• • •				• • •									1			100					
Lawrence July August September October November December		50 79 50 54 50 64	22 30 17 27 20 22	3		:::		2	1 1 1		4		$\begin{array}{c c} 1\\1\\2\end{array}$: : :			2 2	1		3	3		1 2 2	$\frac{2}{2}$		 i 	3 5 4 6 4 8
Totals		347	138																								
Lewis— July . August . September . October . November . December . Totals .		18 24 28 28 28 24 36	14 8	···i			:::		3]] 3 	i i	1 1 1 1				:::/:	2	1		2 1		2	1 1 1 1	í		9 5 3 1 2 3
Lincoln July		30 37 24 21 23 38	18						2		1	2 2	2	: : :	1111	?:::: :::::	 1 1	3 2	: /: .: 	· · · · · · · · · · · · · · · · · · ·			1		i		8 13 4 1 2 3
Linn— July August September October November December	25,253	54 35 50 58 44 42 283	27 17 21 14 22 23	3 1		i		:::	i		1 1 2 1 1 1 1	3 1 	2 3 2 2 2				1 1 1 1 3 5	6 6 4 2 4 2	2 2 1	2		2					11 1 6 3 5 6
Totals		283	124	• • • •										• • •													

									200													120					105.00
	Pop	Tot	Tot								1		Im	por	tant	caus	es of	deat	h.					2			
Counties.	Population, 1910	Total births during six months ending Dec. 31st	Total deaths during six months ending Dec. 31st	Typhoid Fever	Smallpox	Measles	Scarlet Fever	Whooping Cough	Diphtheria and Croup	Influenza	Tuberculosis of the Lungs	Other forms of tuberculosis	Cancer	Diabetes	Epidemic Cerebrospina Meningitis	Acute Anterior Poliomy elitis	Other diseases of the nervous system	Diseases of the heart and circulatory system	Pneumonia, Broncho- pneumonia	Other diseases of respiratory system	Diarrhoea and Enteritis (under 2 years of age).	A c u t e Nephritis and Brights Disease	The puerperal state	Accidents	Suicides	Homicides	Other causes
Livingston— July August September October November December		26 40 24 40 29 33	28 16 16 23 12 21	5 2 5 3 1 2			2	::: ::: ::i	::: i :::		3	3	1 1 1 1	2 1			1 2 1	3	1	1 1	2 1 2 1	2		1 1 2 2	 1	1 2	17 7 6 5 2 2
Totals		192	115	5	1.3							7.V:			1.74	·							-46				
McDonald— July . August . September . October . November . December .		15 36 18 19 22 11	1] (3				 i	 1 2 1 1		2	2 : : : :	:::				2		1					 i			3 1 1 5 2 4
Totals		121	47	7	.72																						
Macon July		45 77 45 72 47 65	29 27 37	2 2 9 1 7 3 7 3	3		:::		 3 1	1 1	2	1					4 1 5 5	5 2	3 2 1 1 3 3 3	1	3 2 2 4 1	1 3 1 1 1	2	1 3 2 1 1	 i		6 10 5 6 9 6
Totals		351	170	0					1																		

Maries	Madison— July August September October November December	23 34 22 23 31 20	15 9 13 12 13 11	3 1 1 1 1		 	 1	1 1 2 1		2 1 1	i	i			::::	₂	 1 1 1	1 4	1 1 1	1			i			7 1 4 3 3 3
July	Totals	 153	73				 																			
Marion (outside Hammbal)— 12,231 39 14 11 1 1 2 1	July	25 30 22 18	3 9 8 4	``i 1				 1 1 1		$1 \\ 2 \\ \cdots \\ 1$					1 		2 1	 1 1	i							····ż
Hannibal	Totals	 140	52				 																			
Hannibal— 18,341 25 4 1 3 6 1 10 August 31 15 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 3 0 6 1 10 10 August 3 0 1 1 2 1 1 2 1 2 1 2 1 2 1 3 1 1 2 1 1 1 2 1 1 2 1 3 1 1 2 1	Hannibal)— July August September October November	12 23 13 24	13 12 8 10	3				``i		3 1 1		1 1 	``i	::::		$\begin{bmatrix} 3 \\ \dots \\ 2 \\ 1 \end{bmatrix}$	2 3 2 1	 1 2	1 1	::::	1 1	2	 i	``i	:::	2 1 1
July 18 25 4 1 3 6 1 10 August 31 15 1 1 2 1 2 1 2 1 2 1 3 6 1 2 1 7 3 6 1 2 1 7 1 2 1 1 2 1 1 2 1 3 0 1 1 2 1 3 0 1 1 2 1 1 1 2 1 1 2 1 3 1 2 1 3 1 2 1	Totals	 132	72				 																			
Mercer— 12,335 32 6 1 1 1 1 3 August 35 5 1 1 1 1 2 September 32 12 2 2 3 1 1 2 October 23 13 1 2 1 3 2 1 1 2 November 36 11 1 3 1 1 5 December 24 8 3 1 2 1 1 Totals 182 55 <th>July</th> <th>31 31 32 25</th> <th>15 21 18 21</th> <th>$\frac{1}{2}$</th> <th>:::</th> <th></th> <th> </th> <th></th> <th></th> <th> 1 1 2</th> <th>1</th> <th>$\begin{array}{c c} 1\\2\\1\\1\\1\end{array}$</th> <th> 1 1 2</th> <th></th> <th></th> <th>5 1 2</th> <th>3</th> <th>i</th> <th>2</th> <th>····i</th> <th>1 1 2 2</th> <th>1</th> <th>2</th> <th></th> <th>1</th> <th>7 3 6</th>	July	31 31 32 25	15 21 18 21	$\frac{1}{2}$:::		 			 1 1 2	1	$\begin{array}{c c} 1\\2\\1\\1\\1\end{array}$	 1 1 2			5 1 2	3	i	2	····i	1 1 2 2	1	2		1	7 3 6
July 32 6 1 1 1 1 3 August 35 5 1 1 1 1 1 1 2 September 32 12 2 2 3 1 4 October 23 13 1 2 1 3 2 1 1 2 November 36 11 1 3 1 1 5 December 24 8 3 1 2 1 1 1 Totals 182 55	Totals	 169	121				 																			
	July August September October November December	 32 35 32 23 36 24	12 13 11 8			:::	:::		i	· · · · · · · · · · · · · · · · · · ·		i i				 3	 2 3 1	3 2		3 2	i	1 i	``i	``i		2 4
	1 Otals	 182	===				 		• • •	• • • •			• • •						1							

			T.E.						3/12		umac								0		200	1 3		* 1		4	
	Pop	Tota	Tot:										Ir	npo	rtant	caus	es of	deat	h.								
Counties.	Population, 1910	Total births during six months ending Dec. 31st	Total deaths during six months ending Dec. 31st	Typhoid Fever	Smallpox	Measles	Scarlet Fever	Whooping Cough	Diphtheria and Croup	Influenza	Tuberculosis of the Lungs	Other forms of tubercu- losis	Cancer	Diabetes	Epidemic Cerebrospinal Meningitis	Acute Anterior Poliomy- elitis	nervous system	Diseases of the heart and circulatory system	Pneumonia, Broncho- pneumonia	Other diseases of respiratory system	Diarrhoea and Enteritis (under 2 years of age).	A c u t e Nephritis and Brights Disease	The puerperal state	Accidents	Suicides	Homicides	Other causes
Miller— July. August September October November December Totals.		200	22 12 12 18 10	2	3		- Y				2 1 1 1 2	i	1 1 1 1 1		i		3 i 1		2		2 4 1 1 	1 	1 1 	1 1 1			4 8 6 6 4 3
Mississippi— July August September October November December	14,557		21 19 22 23 17 28	1 1 2 2 3 3 2 7 2 5 2 5	3	\$		1 1 1	· · · · · · · · · · · · · · · · · · ·	i	2 1 1 1 1	1 	3 2 				1 1 1 1	1 1 1 1 1 1					1 1 1	····· 2	 1	::: ::: :::	5 8 3 10 7 8
Moniteau July August September October November December	14,375	16 38 25 22	13 8 10 14	3					· · · · · · · · · · · · · · · · · · ·		4		· · · · · i	· · · · · · · · · · · · · · · · · · ·			2 1	2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3		1 1	1 1 1 		· · · · i	i i		4 2 5 9 3 5
Totals		149	73	3										24													

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October	 23 33 30 44 28 37	16 15 10 13 15 12	 i						1	1 1 1	···i	···i	:::: ::::	 2 1		 1 2		2	3					6 6 5 5 5 1
Totals	 195	81							 					 	• • • •					• • •		• • •		
October	20 23 16 14 26 16	17 10 10 9 9	$\frac{2}{1}$:::				Color of	1 2 1	ii				2 2 2	2 2 2 1	$\frac{1}{2}$	_i	1	2		2 1 1 	i		4 3 2 2 1 3
Totals	 115	70							 					 										
Morgan July August September October November December	20 25 31 36 25 20	8 10 9 12 11 9	2			 i	. i	i	2	,	2			$\frac{2}{1}$: i		i	$\frac{1}{2}$	$\frac{1}{2}$		1 1 1 1	1		5 4 1 4 3
Totals	 157	59							 					 										
	31 30 47 32 49 106	21 18 17 24 25 20					1 1 2	 1 3	2	2		: : :		2 1 2 1	 1		2	2 6 5 2	1	2	 1 3 1 3	``i 	i i	8 7 5 9 9 10
Totals	 295	125						-	 					 										
Newton— July August September October November December	62 63 44 47 60 59	26	1		• • • • • • • • • • • • • • • • • • • •			$\frac{2}{1}$	3 1 4	3 1	1 1			3 2 3 2 2 2	$\begin{array}{c} 2 \\ \cdots \\ 1 \end{array}$	2 2 2 1	1	6 1 2	1		4 2 1		 i	-= 4 3 3 9 11 9
Totals	 335																<u></u>			<u></u>				===

	and it is									OHO	inuou	THE										1		-			
	Pop	Tota	Tota	J.									Iı	npo	rtant	caus	es of	deat	h.								
Counties.	Population, 1910	Total births during six months ending Dec. 31st	Total deaths during six months ending Dec. 31st	Typhoid Fever	Smallpox	Measles	Scarlet Fever	Whooping Cough	Diphtheria and Croup	Influenza	Tuberculosis of the Lungs	Other forms of tubercu- losis	Cancer	Diabetes	Epidemic Cerebrospinal Meningitis	Acute Anterior Poliomy- elitis	Other diseases of the nervous system	Diseases of the heart and circulatory system	Pneumonia, Broncho- pneumonia	Other diseases of respiratory system	oea and Ent er 2 years of a	A c u t e Nephritis and Brights Disease	The puerperal state	Accidents	Suicides	Homicides	Other causes
August September		56 59 57 38 65 68	26 18 22 15 34		 L						$\frac{2}{3}$		1 1 1 4 2	· · · · i		1 	5 1 2 3 6 2	2 3 2 5	·····			4 2 1 1 5 1		2 4 	 i		7 6 8 2 7 7
Totals Oregon— July August September October November, December	14,681	343 27 35 30 30 43 41	8 6 10 11	3 1	i		1	2			₁					······································	1 1 1		1 1 1 1				i 1	 i		· · · · · · · · · · · · · · · · · · ·	2 1 3 7 2 2
Totals		206	58	5		20	1						1										1				
Osage— July. August. September. October. November. December.		34 35 35 31 47 38	15 15 15 16 16	3			-	-	3	1		i				-	-	1 3 1	1				i i	j i	i		5 4 3 4 3
Totals		220	74	1				• • •					• . • •														

December	23 17 39 28 47 49	9 2 7 5 4 7	 1 1					 : : i							2	 i	 		:::	i	···i		5 1 3 2 1 3
Totals	 203	34		 								 					 						
Pemiscot— July August September October November December	55 33 69 44 55 32	28 35 44 28				4 2 1 2 	1 1		$\begin{array}{c} 1\\5\\4\end{array}$:::			$\begin{bmatrix} 2\\ 6\\ \dots \end{bmatrix}$	2	3 5	 6 6 2	20-1	3	$\begin{bmatrix} 2 \\ \vdots \\ 1 \\ 1 \end{bmatrix}$	 i i	2 1	12 10 16 13 11 3
Totals	 288	183		 								 					 						
Perry July August September October November December	41 29 44 31 33 41	21 11 11 16 16 22	1 2 1			1 1 1 3	···i		 1 2 2		i		::::	2 2 2 2	 1 2	· · · · i	 	1	1	2 1 1 1 1 1	i 	i	5 4 3 7 3 6
Totals	 219	97		 								 					 						
Pettis (outside Sedalia)— July . August . September . October . November . December .	11 36 21 27 27 27	$\begin{array}{c} 3 \\ 15 \end{array}$			 i		:::		2		· · · · · · · · · · · · · · · · · · ·			1 1 2 3 1	i	····i	 	2	1	 2 			3 1 5 2 3
Totals	 159	54		 								 					 						
Sedalia— July. August. September. October. November. December.	38 41 25 31 27 45	27 18 28 28 17 28	3 3 2 			1 1 	· · · i	···· ···· ···· ····	3 2 3	2	1	 			$\frac{1}{4}$	1 2 1	 2	1 3	1	 3 2 		 i	9 6 8 10 3 12
Totals	 207	146		 								 					 				· · ·		

									35	-001	пини	eu.															
	Pop	Tot	Tot					7					In	ipor	tant	cause	es of	death	1.		- V - P						
Counties.	Population, 1910	Total births during six months ending Dec. 31st	Total deaths during six months ending Dec. 31st	Typhoid Fever	Smallpox	Measles	Scarlet Fever	Whooping Cough	Diphtheria and Croup	Influenza	Tuberculosis of the Lungs	Other forms of tuberculosis	Cancer	Diabetes	Epidemic Cerebrospinal Meningitis	Acute Anterior Poliomy- elitis	Other diseases of the nervous system	Diseases of the heart and circulatory system	Pneumonia. Brøncho- pneumonia	Other diseases of respiratory system	Diarrhoea and Enteritis (under 2 years of age).	A c u t e Nephritis and Brights Disease	The puerperal state	Accidents	Suicides	Homicides	Other causes
Phelps— July . August . September . October . November . December .		34 27 32 25 28 39	$egin{array}{c} 12 \\ 13 \\ 12 \\ 10 \\ 16 \\ 12 \\ \end{array}$		2	1			· · · · · · · · · · · · · · · · · · ·		1 1 2	1 i			 i			3 2 2 3		· · · · · · · · · · · · · · · · · · ·	$\begin{bmatrix} 2 \\ \\ 3 \\ \\ 1 \end{bmatrix}$	$egin{array}{c} 2 \\ 1 \\ \vdots \\ 2 \\ 2 \\ 2 \end{array}$		1 1 	 i ::::	 i	$ \begin{array}{c} 1 \\ 4 \\ 2 \\ 2 \\ 6 \\ 3 \end{array} $
Totals		185	75	5																		• • • •					
Pike July August September October November December		24 37 28 40 34 41	28 20 27 26 29 20)] 7] 6]	1						1 2 1 3 1 5	$\begin{array}{c c} 1\\1\\2\end{array}$	6	i			2 3 3 1 2 4	$\frac{5}{2}$	1	1 2 3	2	$\begin{bmatrix} 1\\1\\\dots\\4\\2 \end{bmatrix}$		i i i	 i	 i	8 8 6 9 7 7
Totals		204	151														7					*		***			
Platte July August September October November December Totals		31 36 34 19 35 26] 	i	;: ;: ::		\$7. 			-	1 	···i	i	::::		1 1	3 2 1 1 1	::::i		 i	1 1 i	1 	1 1 1			4 4 6 3 2 3
1 0.0015		101	0.		2.00																						

Polk— July. August. September. October. November. December.		45 48 59 54 40 63	21 12 22 30 24 15	1 2 3 		 i		3 3	 1 2 1	2	i	:::		4 1 2 2 1 1	2 2	1 1 2 3	3	5 2 1	2		1	1		8 1 4 10 7 1
Totals. Pulaski— July. August September. October. November. December.	11,438	309 17 42 30 28 32 33	8 7 9 10 17 14	1 1 2 1				3	i		1 1 1		 	1 2 1 1 2	2 1 1	į		1 1		i	1	1		4 1 2 2 6 5
Totals Putnam July. August. September October. November December Totals.		182 26 36 32 29 29 27 179	9 14 16 7 8 8	1			:::		31 2	2 1	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	2 2 2 1 1 1	1 2 2 1	2			j		 1 1 1			2 4 5 2 3 1
Ralls July August September October November December Totals		23 15 20 28 25 22 133	9 14						i i		1 1 1 1		:::: i		$\begin{bmatrix} 2\\1\\ \dots\\1 \end{bmatrix}$	1	5	1	2		1 			3 2 4 3 3 2
Randolph (outside Moberly)— July		24 35 37 26 33 29 184	11 10 14 13		3				1 1 2						1 1 2 2 2			1 1 2 1 1 	3 1 2 2 2	1 		i	· · i	3 9 2 2 8 2

									C	ont	inueu									1		74		3	4	Track	
	Pop	Tot	Tot										Ir	npo	rtant	caus	ses of	deat	h.								
Counties.	Population, 1910	Total births during six months ending Dec. 31st	Total deaths during six months ending Dec. 31st	Typhoid Fever	Smallpox	Measles	Scarlet Fever	Whooping Cough	Diphtheria and Croup	Influenza	Tuberculosis of the Lungs	Other forms of tuberculosis	Cancer	Diabetes	Epidemic Cerebrospinal Meningitis	Acute Anterior Poliomy- elitis	Other diseases of the nervous system	Diseases of the heart and circulatory system	Pneumonia. Broncho- pneumonia	Other diseases of respiratory system	er 2 years	A c u t e Nephritis and Brights Disease	The puerperal state	Accidents	Suicides	Homicides	Other causes
Moberly— July. August. September October November December	:::::::::::::::::::::::::::::::::::::::	$\begin{array}{c} 11 \\ 24 \\ 21 \\ 21 \\ 19 \\ 16 \end{array}$		3 1				1	2 1 1				 2 				2	1	1 1 1 3			3 1 1 1 2		j 	i		1 2 4 5 4 6
Totals		112	68	3				1		2												3.0					
October		30 44 31 33 36 40	23 12 19 31	3 1 2 2 1 1 2 2		i		2 1			3 1 1 1 1 6 1	1					1 2 2	2 3	1 4 5					1 1 1 2	l		7 9 6 6 6 6 12
Totals		214	128	3						5										8.19							
August September October November December	9,592	14 23 20 25 14 25	7 2 6 13 5	3					 2 1 1		1 1 		1 i				1	:::: : 1	1 2 1				1	1 1			2 3 1 2 5 1
Totals		121	38	3													-46		.,		1.70						

Ripley July August September October November December		14 28 23 40 14 26		····2 ····			 i	2	 		i			1 1 1	i	2	<u>2</u>	 	1		i			3 2 6 6 6 6 6
Totals St. Charles— July August September October November December	24,695	50 47 36 47 46 57	27 23	 i 1		: : :			 2 3 1	····i	1 1 4			$ \begin{array}{c} \vdots \\ \vdots $	2 4 3 9 5	2	 1 1 1	1	 i	:::: : ::: ::: :::	3 3 2 2 2 3 1	1	 i	12 7 6 5 5 8
Totals. St. Clair— July August September October November December	16,412	283 16 22 37 37 25 29	19	 i	: : :	: : :	 		 2 4		1 1			2 2 1 2	4 1	i	$\frac{\dots}{2}$		2		 1			3 5 3 5 2
Totals St. Francois— July August September October November December	35,738	78 102 70 69 94 79	45 43 42 44 36 60	···i		1		 1 2	 8 5 3 5 *6	$\begin{array}{c} 1\\1\\1\\2\end{array}$	1 2 1 2		 1 1	6 2 4 5 1 4	1 4 1 3 1 6	2 1 3 1 5	1 1 1 5	8 5 9 8 1 2	2 3	1	$\begin{array}{c} 6 \\ 2 \\ 2 \end{array}$:::	 i i 1	12 9 6 12 6 20
Totals Ste. Genevieve— July August September October November December	10,607	19 18 33 22 20 27	7	2 1	:::			 i	 1					1 i 1	1	·····i	i	2 2 3	$\frac{1}{3}$					7 3 1 1 2
Totals		139	68						V			 							£ 12 1					

BIRTHS AND DEATHS REPORTED IN MISSOURI (STILLBIRTHS NOT INCLUDED) FROM JULY 1ST TO DECEMBER 31ST, 1911
—Continued.

									-	Jon	inue	1.															
	Pop	Tot	Tot										In	por	tant	cause	es of	death	ı.								
· Counties.	Population, 1910	Total births during six months ending Dec. 31st	Total deaths during six months ending Dec. 31st	Typhoid Fever	Smallpox	Measles	Scarlet Fever	Whooping Cough	Diphtheria and Croup	Influenza	Tuberculosis of the Lungs	Other forms of tubercu- losis	Cancer	Diabetes	Epidemic Cerebrospinal Meningitis	Acute Anterior Poliomy- elitis	Other diseases of the nervous system	Diseases of the heart and circulatory system	Pneumonia, Broncho- pneumonia	Other diseases of respiratory system	Diarrhoea and Enteritis (under 2 years of age).	Acute Nephritis and Brights Disease	The puerperal state	Accidents	Suicides	Homicides	Other causes
St. Louis— July. August September October November December		116 154 124 119 137 131	136 92 104 84 91 95	6 4 1			: i	1 1 	 4		51 35 36 35 32 34	2	5 4	 1 1 1			9 6 6 4 10 7	9 13 7 9	₂ 1 8	1 3 2 2	17	7 6 5 8 3	1 3	5 7 5 5 1 4	4	 i i	18 8 14 10 18 10
Totals		781	602											33													
July August September October November December		45 49 39 60 56 52	24 39 16 28 20 30	1 2 1					i		2	· · · · · · · · · · · · · · · · · · ·		· · · · i			$\begin{bmatrix} 6 \\ 9 \\ \\ 2 \\ 3 \\ 5 \end{bmatrix}$	5 3 4 3	···i	·····i	2 3 1 2 2	 1 ₂		$\begin{array}{c} 1 \\ 5 \\ \vdots \\ 2 \\ 1 \\ 1 \end{array}$:::: i ::::	10 15 9 7 5 12
Totals		301	157													·			3.5								5.10
Schuyler— July. August. September. October. November. December.		12 20 20 15 21 27	2 5 9 14 10	-							2 2		1 1	:::	i		1 2 4 	1 1 1	 1 1	1 i		1 i	;;; ;;;	1 1 1			2 1 4 2 4 2
Totals		115	47											;													

Scotland July August September October November December	18 28 25 12 25 18	6	 i 		· · · · · · · · · · · · · · · · · · ·				i	 1 1			1	2		1				···· 1 ··· 2 2 ···			1 3 4 4 3 5
Totals	 126	49		 				 				 											
July August September October November December	61 64 62 61 58 70	$\frac{26}{35}$	2 2			2 1 1 	$\frac{1}{2}$	1 3 5 2	i 1	 1 1			1	· · · · · · · · · · · · · · · · · · ·	1 2		5 2	j		1			12 9 14 11 11 8
Totals	 376	182		 				 				 									• • •		
Shannon July August September October November December	 13 33 23 47 26 31	13 8 8 14		` i			···· 2	::::						1 1			2		1 1	 i			5 4 3 4 5 2
Totals	 173	59		 				 				 											
Shelby— July August September October November December	14 28 28 29 17 33	21 13 10 11 8 23	1					2 3 4	1		1		$\begin{bmatrix} 2\\1\\2\\ \dots \\1 \end{bmatrix}$	2			1 			1 1 	2		5 6 1 4 5 9
Totals	 149	86		 				 				 			1								
Stoddard— July. August. September. October. November. December.	60 63 85 102 94 92	43 34 50 45	2 4 2			1 1 7 6 6 4	$\frac{1}{3}$	4 3 2 2 2 2 5	1	···i			1 2 2 2 1		1 3 9	1 3 1 3	5 2 3	2	3		::: ::: ::i	i	12 19 11 21 11
Totals	 496	240		 			· · ·	 				 							<u></u>				

t e	Population	Total bi	Total de months																								
	ulation	al l	al	-									In	por	tant	caus	es of	deat	h.								
Counties.	, 1910	oirths during six s ending Dec. 31st	deaths during six	Typhoid Fever	Smallpox	Measles	Scarlet Fever	Whooping Cough	Diphtheria and Croup	Influenza	Tuberculosis of the Lungs	Other forms of tuberculosis	Cancer	Diabetes	Epidemic Cerebrospinal Meningitis	Acute Anterior Poliomy- elitis	Other diseases of the nervous system	Diseases of the heart and circulatory system	Pneumonia, Broncho- pneumonia	Other diseases of respiratory system	Diarrhoea and Enteritis (under 2 years of age).	A c u t e Nephritis and Brights Disease	The puerperal state	Accidents	Suicides	Homicides	Other causes
Stone July August September October November December		23 25 30 30 38 29	$egin{array}{c} 4 \\ 3 \\ 7 \\ 9 \\ 6 \\ 12 \end{array}$						 2 1 2	 i	1 2 1 1		 i					1	1	····· 1	::::: ::::i			`i 	:.:: i ::::		 2 4 2 2 3
Totals		175	41												,												
Sullivan July August September October November December		36 46 53 36 • 50 51	16 12 14 8 11 16	2 2 2 3 1 3	2								2	:::			_i	1 1 2 1	2 2	· · · · · · · · · · · · · · · · · · ·	2 1 3 1	 1 1 1	 i	i 1 1	. 1 		8 2 6 4 2 7
Totals		271	77																								
Taney July August September October November December Totals		9 12 17 14 35 23	10 12							 i 			 1 2					1		::::	i			···i		i	3 4 4 2 2 3

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Texas— July . August . September . October . November . December .	 36 38 49 46 47 41	$\begin{array}{c} 22 \\ 11 \\ 15 \\ 14 \\ 23 \\ 17 \end{array}$	1 1 2			1	2 :::	1 1 4	100000000000000000000000000000000000000	$\frac{1}{2}$		4 i		i	1 1	 1 1	$\frac{2}{2}$		 1 1	· · · · · · · · · · · · · · · · · · ·			7 2 5 4 7 4
Totals	 257	102		 								 											
Vernon— July August September October November December	61 57 52 51 57 68	$\begin{array}{c} 42 \\ 26 \\ 22 \\ 17 \\ 27 \\ 42 \end{array}$	1			j		1 1 1	3	$\begin{array}{c c} 1\\2\\1\\1\\1\end{array}$			9 3 4 4 1 1	4 5 3 4 4 5	 1 1	····i	1 2	3	 2 1	· · · · · · · · · · · · · · · · · · ·	1		11 9 5 4 5 14
Totals	 346	176		 			5. 1	1.9				 						2.2.					
Warren— July August September October November December	7 12 7 8 10 20	6	1 			i		1		$\begin{bmatrix} 1\\2\\ \dots \end{bmatrix}$			$\frac{2}{1}$				1	_i	2	1000			3 1 2 2 1 3
Totals	 64	57		 								 											
Washington— July August September October November December	26 24 23 26 25 39	16 10 12 9 11 9	1 1 3			1 1 3 2		2	2 1	1	1 2 		1 1 1	1			····i		 i				4 2 7 1 5 3
Totals	 163	67		 	· ·							 											
Wayne July August September October November December	36 30 37 36 29 42	14 10 21 19 20 9	1 1 1			1	3	4		 2			2 i i 2	$\begin{bmatrix} 2\\2\\ \dots \\ 2 \end{bmatrix}$	 1 1 4		$\begin{bmatrix} 1\\2\\1 \end{bmatrix}$	 1 2	2 1			 i	3 5 8 3 3
otals	 210	93		-								 	,										

										-0110	macc																
	Pop	Tot	Tot										In	por	tant	caus	es of	deat	h.								
Counties.	Population, 1910	Total births during six months ending Dec. 31st	Total deaths during six months ending Dec. 31st	Typhoid Fever	Smallpox	Measles	Scarlet Fever	Whooping Cough	Diphtheria and Croup	Influenza	Tuberculosis of the Lungs	Other forms of tuberculosis	Cancer	Diabetes	Epidemic Cerebrospinal Meningitis	Acute Anterior Poliomy- elitis	Other diseases of the nervous system	Diseases of the heart and circulatory system	Pneumonia, Broncho- pneumonia	Other diseases of respiratory system	Diarrhoea and Enteritis (under 2 years of age).	A cute Nephritis and Brights Disease	The puerperal state	Accidents	Suicides	Homicides	Other causes
Webster— July August September October November December		36 34 54 28 42 43	10 12 19 9	$\frac{3}{2}$					 1 3 3 1	 i	3 2 3 1									i	1 	3 2 1 1 1 1		 1 1 			3 3 4 2 4
Totals		237	79	-				*																			
Worth— July August September October November December		10 9 13 20 17 14	3 8 5 2								 		· · · · · · · · · · · · · · · · · · ·		***		4	 i	 i		2	1					1 3
Totals		27 39 32 26 72 60	18 12 9 10 10 21 32	1 3 3 1				 i	 ''i 2	 3	1 1 1 1 2 2	 1	1 i 2	 i			 2 2 1 1	$\frac{1}{2}$	1 3 6	 1 2	 1 2	1 4 1 2	1 i	 i 	 i	i i	6 1 2 2 7
Totals		256	94															• • • •									

St. Louis City 687,029 July August September October November December	1301 1365 1351 1225 1141 1368	976 838 738 718 871 868	$\frac{22}{11}$ $\frac{10}{12}$		4 1 	10	9 5	3 6 10	1 1 2 2 5	67 64 61 62 68 94	8	42 54 44 35	12 7			48 59 48 60	$\frac{117}{128}$	130	$\frac{16}{15}$	94 70 24 31	69 69 52 65 78 88	6 8 3 6	47 42 31 33 46 45	19 22	12 6 7 11	246 168 153 125 132 132
Totals	7841	5009	• • •			•																٠.,				
Grand totals 3,293,335	37,874	20,373	771	5	32	65	263	390	54	1997	253	974	181	9	36	1603	2478	1279	487	1443	1288	241	944	306	151	5123

THE BACTERIOLOGICAL LABORATORY.

The work of the last quarter of 1911 is shown in the following tables. The total number of examinations for the three months was 876. For the corresponding period of 1910, the number was 329:

TABLE 1.TOTAL EXAMINATIONS FOR THREE MONTHS.

	Tuberculosis	Typhoid	Diphtheria	Malaria	Rabies	Gonorrhoea	Water	Tissues	Urine	Miscellaneous .	Totals
October	75	47	38	5	1	2	19	5	29	11	232
November	99	57	74	6	2	7	14	15	41	17	332
December	105	29	73	7	0	3	8	10	54	23	312
Totals	279	133	125	18	3	12	41	30	124	51	
Grand Total											876

The work of the laboratory by counties is shown in Table II, which gives the number of specimens received from each county:

TABLE II.

WORK BY COUNTIES FOR THREE MONTHS.

County.	Number	County.	Number
Adair	0	Clinton	2
Andrew	3	Cole	160
Atchison	5	Cooper	
Audrain		Crawford	· · · · · · · · · · · · · · · · · · ·
Barry	6	Dade	
Barton	5	Dallas	
Bates		Daviess	
Benton	5	DeKalb	2
Bollinger	2	Dent	2
Boone	3	Douglas	
Buchanan	6	Dunklin	19
Butler	3	Franklin	
Caldwell	2	Gasconade	2
Callaway	3	Gentry	5
Camden	2	Greene	23
Cape Girardeau		Grundy	5
Carroll	8	Harrison	4
Carter	0	Henry	8
Cass	8	Hickory	
Cedar		Holt	1
Chariton		Howard	2
Christian	4	Howell	48
Clark	2	Iron	
Clay	1	Jackson	6

TABLE II.—Continued.

County.	Number.	County.	Number
Jasper:	24	Pike	
Jefferson	0	Platte	1
Johnson	6	Polk	
Knox	1	Pulaski	
Laclede	1	Putnam	
Lafayette	18	Ralls	
Lawrence	2	Randolph	
Lewis	5	Ray	
Lincoln	6	Reynolds	
Linn	11	Ripley	
Livingston	20	Saline	
McDonald	2	Schuyler	
Macon	5	Scotland	The same
Madison	0	Scott	
Maries	6	Shannon	
Marion	1	Shelby	1
Mercer		St. Charles	
Miller	18	St. Clair	
Mississippi	2	St. Francois	3
Moniteau		Ste. Genevieve	
Monroe		St. Louis	
Montgomery		Stoddard	
Morgan		Stone	
New Madrid		Sullivan	
Newton		Taney	
Nodaway		Texas	
Oregon		Vernon	
Osage		Warren	
Ozark		Washington	
Pemiscot		Wayne	
Perry		Webster	
Pettis		Worth	
Phelps		Wright	

Three hundred and forty-eight physicians have sent specimens to the laboratory, the number varying from 1 to 41.

TABLE III.
DISTRIBUTION OF SPECIMENS.

Physicians sending	1 specimen	2
Physicians sending	2 specimens	
Physicians sending	3 specimens	
Physicians sending	4 specimens	
Physicians sending	5 specimens	
Physicians sending	6 specimens	
Physicians sending	7 specimens	
Physicians sending	8 specimens	
Physicians sending	9 specimens	
	10 specimens	
	11 specimens	

Eight physicians sent, respectively, 12, 17, 18, 19, 21, 26, 29 and 41 specimens. The 41 examinations were 40 samples of sputum, and 1 throat swab, sent from the State Prison.

NOTES.

The laboratory strives to render the best possible service to the physicians of this State in the control of infectious diseases. For this reason it has been found necessary to discontinue the routine chemical analysis of urine. The microscopical examination of the sediment will be made whenever time allows, as heretofore.

The following correspondence touches upon the work of the laboratory, and the matter of fees, concerning which there is frequent inquiry:

	—, Mo.
t visit	1911.

Dr. Murray C. Stone, Jefferson City, Mo.:

Dear Doctor: Do you make bacteriological examinations free? I have been sending my specimens to Chicago.

I note you make examinations of gonococcus infection free.

Yours fraternally,

On the other hand, we wish to increase as much as possible, the work of the laboratory in controlling any disease of a bacterial nature, that is dangerous to the public health. It was for this reason that the examination for gonococcus infection was recently taken up.

I am enclosing herewith some "Request Cards," and hoping you will soon begin to use the laboratory.

I remain, yours very truly,

State Bacteriologist.

Physicians are urged to use the "Request Cards" when sending specimens. They may be obtained by addressing the State Bacteriologist; and same are always sent out with reports. The "Request Cards," properly filled out, gives on one side all the necessary data, while the other side bears the original and permanent record of the examination.

A number of throat swabs still arrive in other than the regulation outfits provided by the Board of Health. Physicians will please obtain these outfits from the County Health Officer, or from the laboratory. By their use you are not only complying with the postal regulations, but you are sure of obtaining a culture free from contamination, and moreover, are not exposing those handling the material to infection.

Owing to an oversight in the printing of the labels of the diphtheria outfits, the place for the sender's name was given too prominent a place, with the result that tubes have been returned to the physicians. Therefore, physicians are requested *not* to fill out the space following the word "From."

Hereafter the Gaffky scale will be used in reporting positive sputum examinations. It is not intended that this grading is to indicate the condition of the patient, but it is believed to be of some value in denoting the progress of the pulmonary condition from time to time.

GAFFKY SCALE. (Modified.)

For comparison of positive specimens.

- 1.—Only 10 bacilli in whole preparation.
- 2.—Only 1 bacillus on average in many fields.
- 3.—Only 1 baccillus on average in each field.
- 4.—2 to 3 bacilli on average in each field.
- 5.—4 to 6 bacilli on average in each field.
- 6.-7 to 12 bacilli on average in each field.
- 7.—Fairly numerous on average in each field.
- 8.—Numerous in each field.
- 9.—Very numerous on average in many fields.
- 10.—Enormous masses on average in many fields.

A great majority of blood smears still continue to be unsatisfactory for examination. The technique of making blood smears can easily be acquired with a little practice.